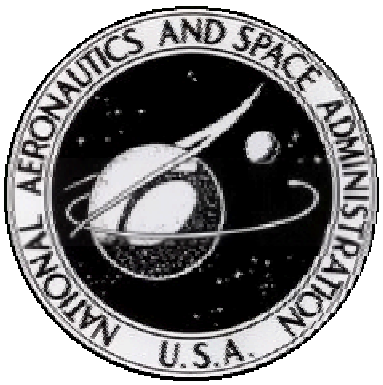
NASA Facilities



Blank Page

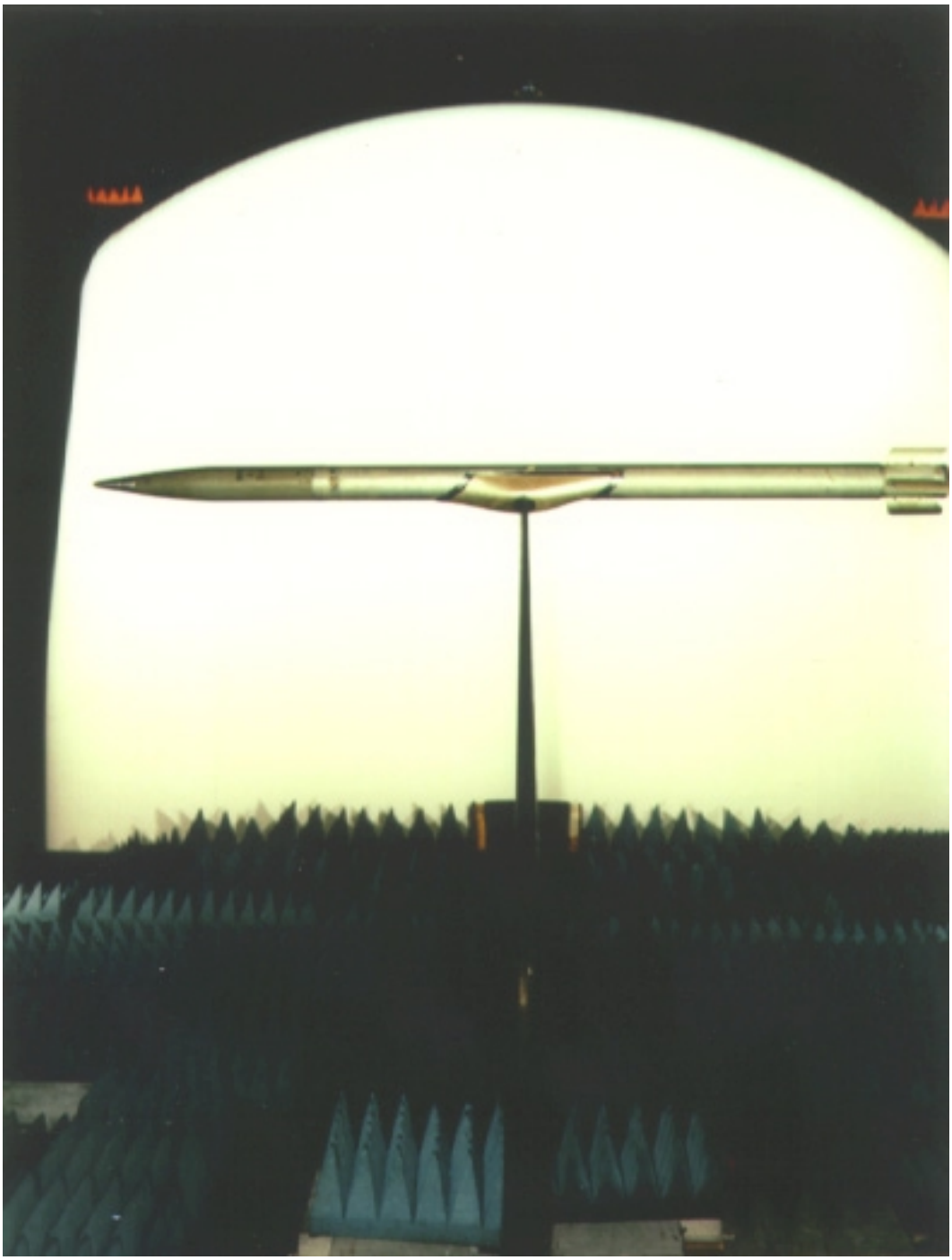
Back of NASA Facilities Page

Compact Range Pilot Facility

NASA Langley Research Center
Hampton, VA

TYPE OF FACILITY:	Indoor, static, research and development
POINT OF CONTACT:	Melvin C. Gilreath MS490 8 North Dryden Street NASA Langley Research Center Hampton, VA Phone: (757) 864-1817 Fax: (757) 864-7975 E-mail: m.c.gilreath@larc.nasa.gov
PERTINENT TESTING:	RCS and antenna performance measurements
FACILITY DESCRIPTION:	Facility is focus fed compact range
RANGE LENGTH:	65 feet
FREQUENCY COVERAGE:	0.50-18 GHz
POLARIZATION COVERAGE:	HH, VV
DYNAMIC RANGE:	0.5-2.0 GHz = 70 dB; 2.0-18.0 GHz = 90 dB
RANGE RESOLUTION:	0.5-2.0 GHz = 10 cm (parameter dependent); 2.0-18.0 GHz = 1 cm (parameter dependent)
TARGET SUPPORTS:	Metal pylon, foam columns
TARGET LIMITATIONS:	Up to 8 x 8 x 8 feet; <2,000 pounds
DATA PROCESSING:	Full processing capability to include RCS-vs-frequency, RCS-vs-azimuth, imaging and antenna performance data.

Test Model During RCS Testing in Compact Range Pilot Facility



Experimental Test Range

NASA Langley Research Center
Hampton, VA

TYPE OF FACILITY:	Indoor, static, research & development, technology development
POINT OF CONTACT:	Melvin C. Gilreath MS490 8 North Dryden Street NASA Langley Research Center Hampton, VA Phone: (757) 864-1817 Fax: (757) 864-7975 E-mail: m.c.gilreath@larc.nasa.gov
PERTINENT TESTING:	RCS measurements
FACILITY DESCRIPTION:	Facility is focus (side) fed compact range
RANGE LENGTH:	80 feet
FREQUENCY COVERAGE:	0.3-18 GHz
POLARIZATION COVERAGE:	HH, VV
DYNAMIC RANGE:	TBD
RANGE RESOLUTION:	TBD
TARGET SUPPORTS:	String system, foam columns
TARGET LIMITATIONS:	Up to 13 x 13 x 13 feet (expected); <2,000 pounds
DATA PROCESSING:	Full processing capability to include RCS-vs-frequency, RCS-vs-azimuth, and imaging.

Experimental Test Range

(Under Development)